Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-01-17-02** **Date: 30-08-21**
Customer Name	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Customer Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli
Agency	:	Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.
Customer's Reference	:	BBMP/EE/BTP/WO/196/2020-21
Date of Receipt	:	27-08-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	28-08-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.39	529	648	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	559	668	21.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

End of Report

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-01-17-02**	**Date: 01-09-21**
Customer Name	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Customer Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli	
Agency	:	Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.	
Customer's Reference	:	BBMP/EE/BTP/WO/196/2020-21	
Date of Receipt	:	27-08-21	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	28/08/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.48	150.51	2.365	7928	150.3	19.0	17.6	22.0
2	Cover Slab-2	100.52	150.49	2.389	7934	150.9	19.0	17.7	22.1
3	Cover Slab-3	100.51	150.50	2.392	7933	81.5	10.3	9.6	11.9

* The results obtained are satisfactory as per standard requirements.

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-17-02** **Date: 09/09/2021**

Customer Name : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Customer Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli

Agency : Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.

Customer's Reference : BBMP/EE/BTP/WO/196/2020-21

Date of Receipt : 04-09-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	02/09/2021	09/09/2021	151.96 X 150.53 X 150.77	22875	8.247	414.0	18.1	18.2
2	PCC	M20	02/09/2021	09/09/2021	149.66 X 150.43 X 150.44	22513	8.263	400.7	17.8	
3	PCC	M20	02/09/2021	09/09/2021	150.56 X 150.76 X 150.60	22698	8.219	424.5	18.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-17-02** **Date: 30/09/2021**

Customer Name : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Customer Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli

Agency : Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.

Customer's Reference : BBMP/EE/BTP/WO/196/2020-21

Date of Receipt : 04-09-21

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	02/09/2021	30/09/2021	150.39 X 151.75 X 149.68	22822	8.247	520.3	22.8	22.9
2	PCC	M20	02/09/2021	30/09/2021	150.33 X 150.47 X 150.69	22620	8.211	522.5	23.1	
3	PCC	M20	02/09/2021	30/09/2021	150.77 X 150.86 X 149.63	22745	8.163	518.6	22.8	

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
5	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	PCC(M20)	Compressive Strength(7days and 28days)	1set /1-5 cum		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-01-17-02** **Date: 30-08-21**

Customer Name : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Customer Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli

Agency : Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.

Customer's Reference : BBMP/EE/BTP/WO/196/2020-21

Date of Receipt : 27-08-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-08-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	133	133	13.3	86.7	90-100	90-100	90-100	95-100
3	2.36 mm	189	322	32.2	67.8	60-95	75-100	85-100	95-100
4	1.18 mm	100	422	42.2	57.8	30-70	55-90	75-100	90-100
5	600 micron	180	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	197	799	79.9	20.1	5-20	8-30	12-40	15-50
7	150 micron	104	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-01-17-02** **Date: 30-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer,
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-17-02** **Date: 30-08-21**
Customer Name	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore
Customer Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli
Agency	:	Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.
Customer Reference	:	BBMP/EE/BTP/WO/196/2020-21
Date of Receipt	:	27-08-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-08-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	158	158	3.2	96.8	90-100
3	10 mm	2358	2516	50.3	49.7	25-55
4	4.75 mm	2215	4731	94.6	5.4	0-10
5	Pan	269	5000	100	0	_

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-17-02** **Date: 30-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-17-02** **Date: 31-08-21**
Customer Name	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Customer Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli
Agency	:	Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.
Customer's Reference	:	BBMP/EE/BTP/WO/196/2020-21
Date of Receipt	:	27-08-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-08-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	295	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	182 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5 mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-01-17-02** **Date: 25-09-21**

Customer Name : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Customer Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Desilting of drains at Kodigehalli and Surrounding areas in Ward no.08 Kodigehalli

Agency : Sri. Karthik Yadav C P, #201, Sai Appartment, 6th Cross, Srikanteswaranagara, Bangalore - 560086.

Customer's Reference : BBMP/EE/BTP/WO/196/2020-21

Date of Receipt : 27-08-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 28-08-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****